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PATENTEE: OLE JØRGEN ANFINDSEN :

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FOR: PARAMETERIZED LOCK MANAGEMENT SYSTEM AND METHOD FOR
CONDITIONAL CONFLICT SERIALIZABILITY OF TRANSACTIONS

STATEMENT OF SUPPORT FOR CLAIM AMENDMENTS
PURSUANT TO 37 CFR §1.121(b)(2)(iii)

Commissioner of Patents
Washington, DC 20231

SIR:

In accordance with the requirements of 37 CFR §1.121(b)(2)(iii), enclosed herewith is an explanation of the support in the disclosure of the patent for the claim amendments.

Before addressing any claim in general, it is to be noted that the majority of the claim amendments pertain to the recitation of the data structures illustrated in Figures 2 and 3.

While there have been a number of claim amendments and additional claims added, many of the features of the claims are repeated. Where limitations appearing in one claim are substantially the same as another claim, an explanation of similarity will be provided.

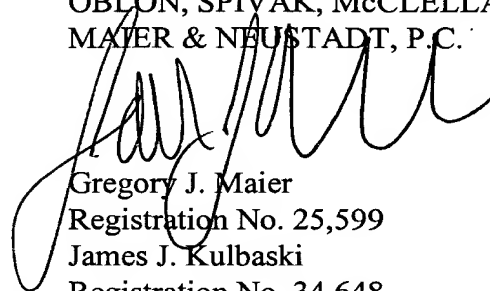
Independent Claim 1 has been amended to recite data structures illustrated in the embodiment of Figure 2. In the attached Appendix I entitled "Support for Claims," in the left margin in boldface text surrounded by brackets are reference numerals for the newly added features. These reference numerals correspond to Figure 2 and are generally described in the specification at col. 5, although other portions of the specification may support the added

supported for similar reasons as the added limitations of Claims 19-22 are supported.

There may be additional support in the specification for all changes and additions to the claims.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Gregory J. Maier
Registration No. 25,599
James J. Kulbaski
Registration No. 34,648
Attorneys of Record



22850

(703) 413-3000
Fax (703) 413-2220
GJM:JJK:eac

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APPENDIX I
SUPPORT FOR CLAIMS

1. A resource lock management system, comprising:

a lock data structure system which stores [storing] lock data representing granted and pending resource lock requests, wherein the data representing each granted and pending resource lock request includes: data indicating a resource to which access has been granted or requested, and an access mode associated with the resource lock request;

wherein a subset of the granted and pending resource lock requests are parameterized resource lock requests and the data representing each resource lock request in the subset further includes one or more parameter values indicating a data reliability classification associated with the resource lock request; and

a lock manager for evaluating, granting and denying resource lock requests, including determining when a resource lock request is unconditionally conflicting with any granted resource lock request, determining when the resource lock request is conditionally conflicting with any granted resource lock request, and evaluating the resource lock request with respect to each conditionally conflicting granted resource lock request by performing a predefined comparison of the parameter values for the resource lock request with the parameter values for each conditionally conflicting granted resource lock request,

wherein the lock data structure system includes:

[162-5] a first data structure which stores information of a pending or granted lock request, the first data structure including:

[181] a field which stores an access mode of a resource;

[184] a field which stores an identification of a transaction associated with the first data structure; and

[182] a field which stores parameters of a data reliability classification associated

with a pending or granted resource lock request;

[160-4] a second data structure which stores information of a lock, the second data structure including:

[170] a field which stores an identification of a lockable resource which corresponds to said data indicating a resource to which access has been granted or requested; and

[174] a field which references the first data structure.

10. A resource lock management system according to claim 1, wherein the lock data structure system further includes a third data structure, the third data structure including:

[154] a field which references the second data structure.

11. A resource management system according to claim 10, wherein:

the second data structure further includes:

[172] a field which stores aggregated read parameters of first data structures referenced by the second data structure; and

[173] a field which stores aggregated write parameters of first data structures referenced by the second data structure,

[col. 5, lns. 45-51] wherein the aggregated read and write parameters correspond to said one or more parameter values indicating a data reliability classification associated with the resource lock request.

12. A resource management system according to claim 11, wherein the second data structure further includes:

[171; col. 5, lns. 20-24] a field which stores an identification of a most restrictive access mode of the lockable resource and which corresponds to said access mode associated with the resource lock request.

19. A resource lock management system, comprising:

a lock data structure system which stores lock data representing granted and pending resource lock requests, wherein the data representing each granted and pending resource lock request includes: data indicating a resource to which access has been granted or requested, and an access mode associated with the resource lock request;

wherein a subset of the granted and pending resource lock requests are parameterized resource lock requests and the data representing each resource lock request in the subset further includes one or more parameter values indicating a data reliability classification associated with the resource lock request; and

a lock manager for evaluating, granting and denying resource lock requests, including determining when a resource lock request is unconditionally conflicting with any granted resource lock request, determining when the resource lock request is conditionally conflicting with any granted resource lock request, and evaluating the resource lock request with respect to each conditionally conflicting granted resource lock request by performing a predefined comparison of the parameter values for the resource lock request with the parameter values for each conditionally conflicting granted resource lock request,

wherein the lock data structure system includes:

[190-4] a first data structure which stores information of a lock, as well as the pending and granted requests thereof, the first data structure including:

[170] a field which stores an identification of a lockable resource which corresponds to said data indicating a resource to which access has been granted or requested; and;

[171] a field which stores an access mode of a resource which corresponds to said access mode associated with the resource lock request;

[172/173] a field which stores parameters of a data reliability classification associated with a resource lock request which corresponds to said one or more parameter values

indicating a data reliability classification associated with the resource lock request;

[152] a second data structure including:

[154] a field which references the first data structure.

[col. 5, lns. 20-24] 20. A system according to claim 19, wherein the field which stores an access mode stores a most restrictive access mode of the granted lock requests.

21. A system according to claim 19, wherein the field which stores parameters comprises:

[172] a field which stores read parameters; and

[173] a field which stores write parameters.

22. A system according to 21, wherein:

[col. 6, lns. 32-35] the read parameters are aggregated read parameters of granted read requests; and

[col. 6, lns. 32-35] a write parameters are aggregated write parameters of granted write requests.